

AMENDMENTS TO THE CLAIMS

Claims 1-10 (Cancelled)

Claim 11 (Currently Amended) A display device for displaying an image according to input image data that is digital data, said display device comprising:

a light source for producing light;

light-transmitting filters for separating the light from said light source into at least four kinds of light including white light, said light-transmitting filters including a white-transmitting filter for transmitting white light and non-white transmitting filters;

a light valve for projecting each kind of light from said light-transmitting filters onto a screen;

said white light-transmitting filter being used to display information corresponding to lower-order bits of said digital data;

a signal converter portion to control said white light-transmitting filter using a control signal corresponding to said lower-order bits; and

said non-white light-transmitting filters being used to display information corresponding to higher-order bits of said digital data.

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Claim 12 (Previously Added) The display device of claim 11, wherein said white light-transmitting filter has spectral characteristics that are almost flat in the visible range of wavelengths of the light.

Claim 13 (Previously Added) The display device of claim 11, wherein if a brightness required by the input image data is lower than a given gray level, information is displayed using said white light-transmitting filter or said non-white light-transmitting filters, and if said brightness is higher than said given gray level, information is displayed using only said non-white light-transmitting filters.

Claim 14 (Previously Added) The display device of claim 11, wherein said light valve is of the reflective type.

Claim 15 (Previously Added) The display device of claim 11, wherein said light valve is of the transmissive type.

Claim 16 (Previously Added) The display device of claim 11, wherein a value obtained by integrating the product of spectral transmission factor of said white light-transmitting filter in

the visible range and spectral luminous efficiency with respect to wavelength is less than sum of values obtained by integrating the product of spectral transmission factor of each of said non-white light-transmitting filters in the visible range and spectral luminous efficiency with respect to wavelength.

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Claim 17 (Previously Added) The display device of claim 11, wherein brightness created by a first gray level represented via said white light-transmitting filter is lower than brightness created by a first gray level represented via said non-white light-transmitting filters.

Claim 18 (New) A method for displaying digital image data from a display device, comprising

decomposing light from a light source into a plurality of colors, one of said plurality of colors being white;

controlling a white-light transmitting filter of a set of filters with a control signal corresponding to lower-order bits of said digital image data;

displaying information corresponding to said lower order bits using said white-light transmitting filter; and

projecting said plurality of colors from said set of filters.

Claim 19 (New) The method of claim 18, further comprising displaying information corresponding to higher-order bits of said digital image data.

Claim 20 (New) The method of claim 19, further comprising controlling non-white transmitting filters of said set of filters with another control signal corresponding to said higher-order bits of said digital image.

Claim 21 (New) The display device of claim 11, wherein said signal converter portion controls said non-white light-transmitting filters using another control signal corresponding to said higher-order bits.